## ABSTRACT

The present invention provides a phosphor comprising at least one selected from the group consisting of Si and Ge, and Eu as an activator, and ratio R of not less than 40 %, wherein the ratio R is calculated by entering value of [a] being peak amplitude derived from Eu<sup>2+</sup> and value of [b] being peak amplitude derived from Eu<sup>3+</sup> in primary differential pattern of an X-ray absorption near edge structure spectrum into the following equation (1).

$$R(%) = (a/(a+b)) \times 100$$
 (1)